



Upgrading Master Control Software and Firmware

This note tells you what to do to upgrade to a new version of master control software and its related firmware.

The currently released software is at version 6.3.5. It is recommended that you upgrade to this version.

Summary

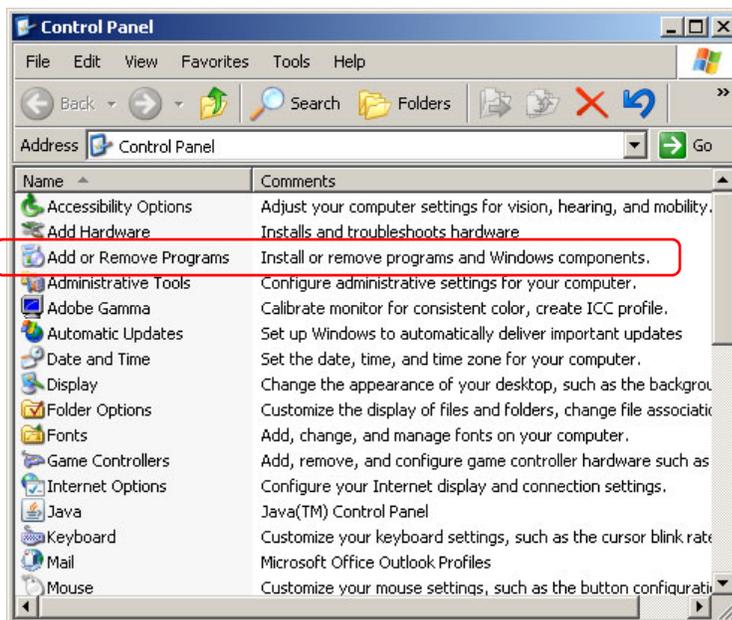
The steps described in this note are summarized here:

- 1 Remove your existing configuration software. If you have a CECP GUI, remove it as well.
- 2 Install the new configuration software. If you have the optional CECP GUI, install it.
- 3 Update the firmware in all MCPMs and MCEs in your system.
- 4 Update the firmware in all control panels in your system.
- 5 Optionally modify MCE and MCPM configurations to use new features.
- 6 Optionally modify panel configurations to use new features.

These steps do not address upgrading any third-party equipment or any Miranda equipment other than the NV5100MC and NV5128-MC products. Specifically, this note does not address Intuition XG processors, Imagestore 750 “channel branding” processors, DNF tally processors, or DNF device controllers.

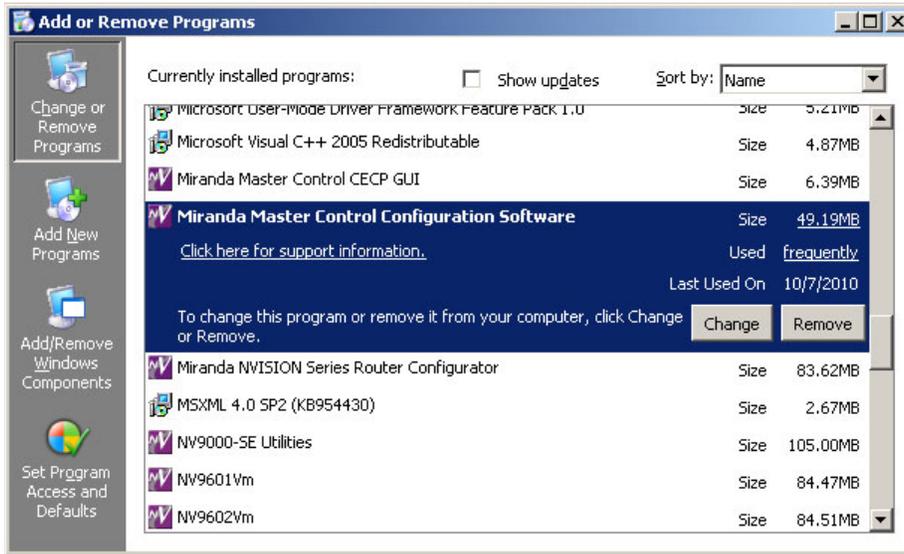
Step 1—Remove Existing Software

- 1 Select the Control Panel from the Windows Start menu.
- 2 Choose ‘Add or Remove Programs’:



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3 Scroll to find 'Miranda Master Control Configuration Software':

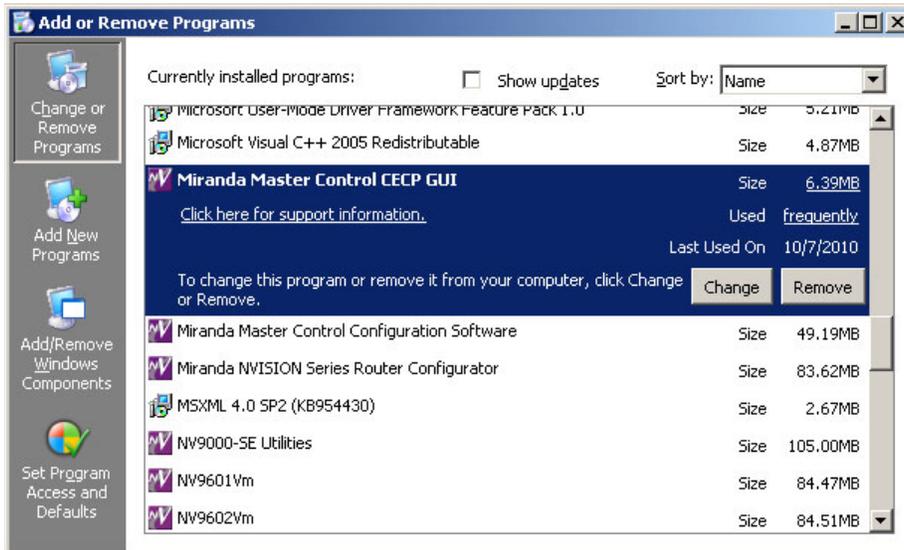


Click 'Remove'. An alert message appears:



Click 'Yes' to proceed with the removal.

4 If you have a CECP GUI installed, scroll to 'Miranda Master Control CECP GUI' and remove that too:



Notes:

- If your master control software is very old, the entries in the 'Add or Remove Programs' window will read 'NVISION Master Control ...' instead of 'Miranda Master Control ...'
- Repeat these steps on every computer for which you want to upgrade master control software.

- The removal of the software does not remove your existing configurations.

Step 2 Re-Install Master Control Software

The configuration software installer is named `InstallConfig.msi`. Actually, the installer is a directory of several files, all of which are essential for installation.

- ▲ It is assumed that you have obtained the installer folder from Miranda customer service.

The configuration software installer contains 4 applications:

- MasterConfig—configures MCEs and MCPMs.
- MasterDiag—sets up communication with MCEs and MCPMs.
- MasterLogo—converts graphics into logos that can be used by MCEs and MCPMs. This utility also uploads the logos to the MCE or MCPM.
- MCS Panel Configuration Editor—creates and manages panel configurations for Imagestore 750s, MCEs, and MCPMs.

Follow these steps to install configuration software:

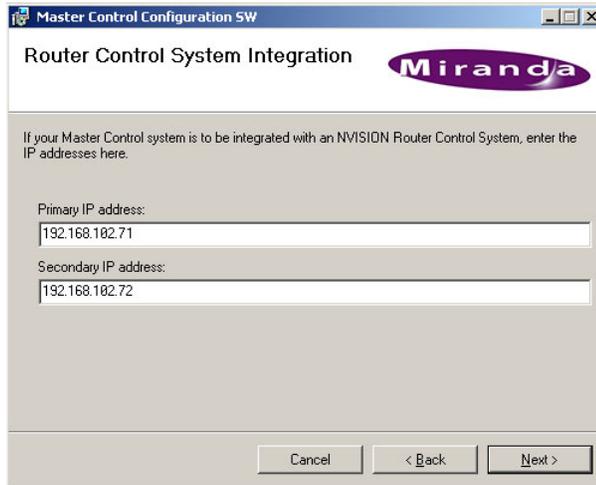
- 1 Load the installer on each PC that you want to be able to execute configuration programs. Double-click the installer icon. (It might be more convenient to load the installer on a USB memory device and launch the installer from the USB device.)
- 2 The Welcome screen displays:



Click 'Next' to proceed.

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3 The NV9000 Integration screen displays:



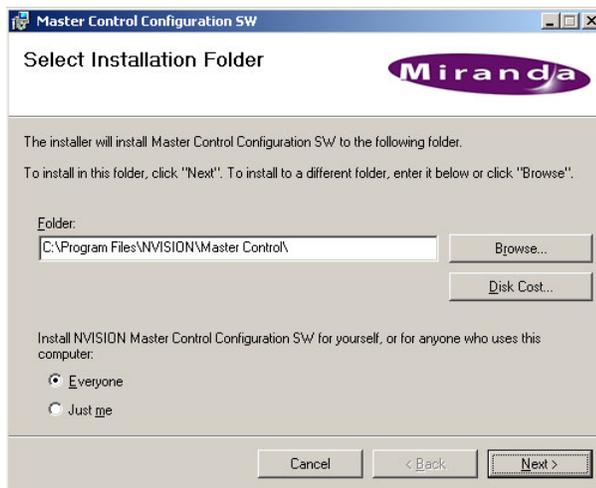
If you have an NV9000 router control system integrated with your master control system, enter the IP address of the NV9000's primary system controller (and secondary system controller, if applicable). A stand-alone system controller is considered the primary, in this instance.

▲ If your NV9000 system has a virtual IP address, it is preferable to enter that.

If you do not have an NV9000, leave these fields empty. If you add an NV9000 at a later date, you will have to remove and re-install this software. Specify these IP addresses during re-installation.

Click 'Next' to proceed.

4 The "Select Installation Folder" screen displays:

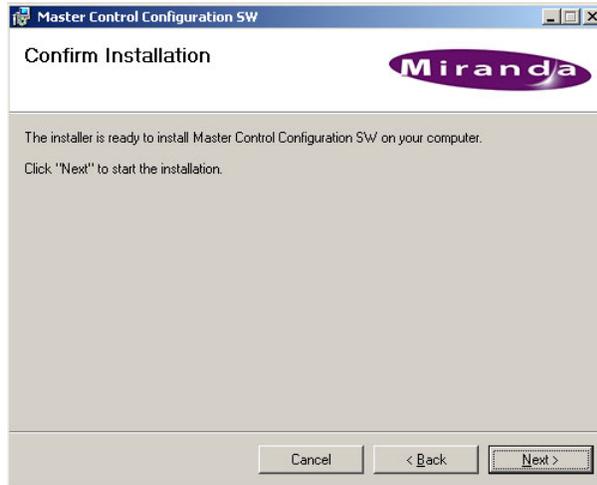


The default folder for the installation is C:\Program Files\NVISION\Master Control\. Browse to choose another folder. We recommend that you select "Everyone" so that everyone who uses the PC can access the software.

Click 'Disk Cost' if you wish to see how much disk space you need.

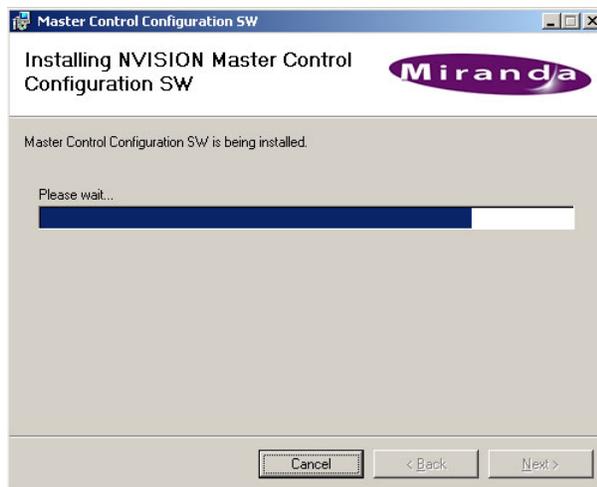
Click 'Next' to proceed.

5 The confirmation screen displays:



Click 'Next' to proceed. Click 'Cancel' to cancel the installation. Click 'Back' to change your installation parameters.

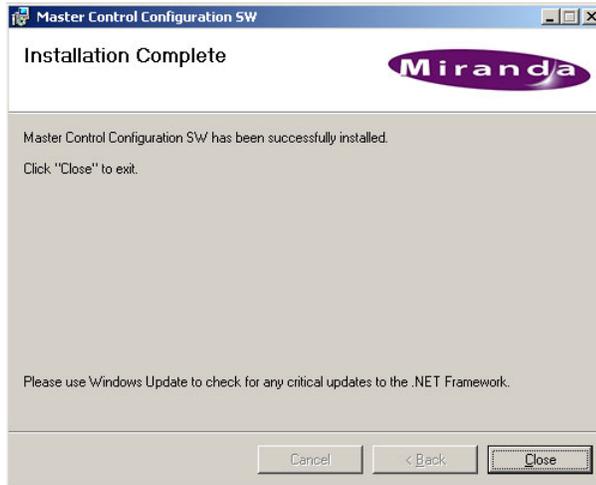
6 When the actual installation begins, a progress indicator displays:



Click 'Cancel' to terminate the installation before it completes or wait for the installation to complete. (The installation takes only a few seconds.)

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7 The completion notice displays:



Click 'Done.' You will be returned to the blue main CD screen.

The installation is complete. The installer has either created or re-used a master control folder and has created entries in the Windows XP Start menu. The Start menu path is:

Start > Programs > Miranda > Master Control > ...

The default pathnames of the four configuration programs are:

```
C:\Program Files\Miranda\Master Control\bin\MasterConfig.exe  
C:\Program Files\Miranda\Master Control\bin\MasterDiag.exe  
C:\Program Files\Miranda\Master Control\bin\MasterLogo.exe  
C:\Program Files\Miranda\Master Control\bin\MCSPanelConfig.exe
```

We recommend that you create shortcuts on your PC's desktop:



To launch any of the applications, (1) choose the application from the Start menu, (2) double-click the application in its folder, or (3) double-click its desktop shortcut.

Installing the CECP GUI

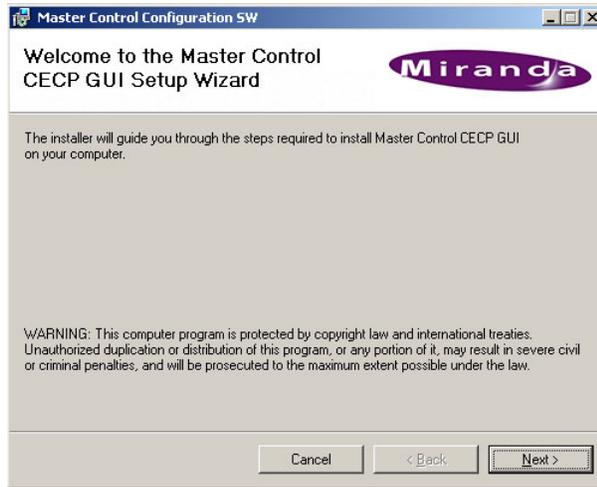
The configuration software installer is named `InstallCECP_GUI.msi`.

- ▲ It is assumed that you have obtained the installer from Miranda customer service. Miranda provides the GUI software as a separate purchase item.

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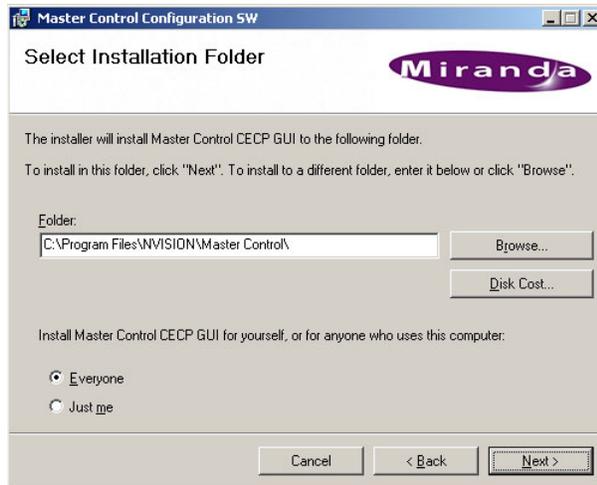
Follow these steps to install the GUI software:

- 1 Launch the GUI installer. The Welcome screen displays:



Click 'Next' to proceed.

- 2 The "Select Installation Folder" screen displays:



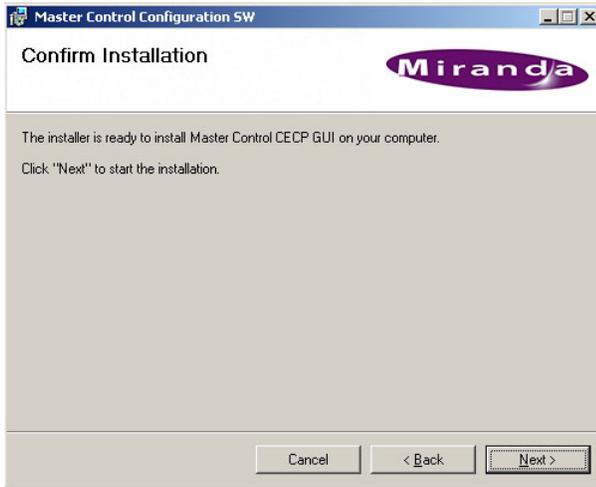
The default folder for the installation is C:\Program Files\NVISION\Master Control\. Browse if you want to choose another folder. We recommend that you select "Everyone" so that everyone who uses the PC can access the software.

Click 'Disk Cost' if you wish to see how much disk space you need:

Finally, click 'Next' in the "Select Installation Folders" window to proceed.

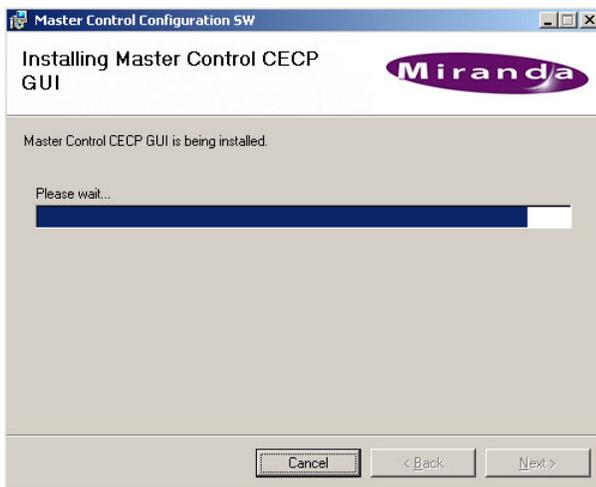
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3 The confirmation screen displays:



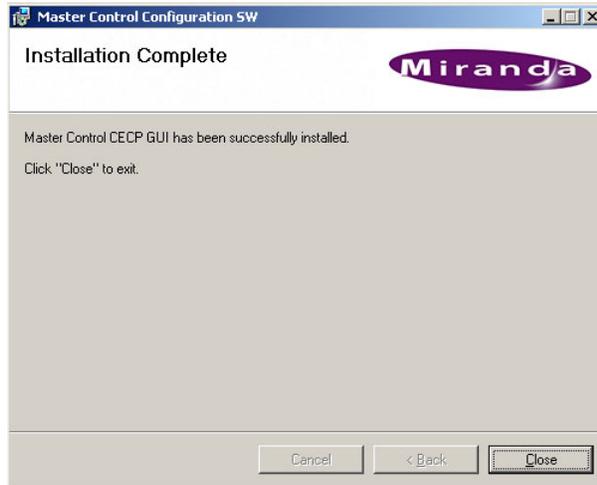
Click 'Next' to proceed. Click 'Cancel' to cancel the installation. Click 'Back' to change your installation parameters.

4 When the installation begins, a progress indicator displays:



Click Cancel to terminate the installation before it completes or wait for the installation to complete.

5 The completion notice displays:



Click 'Done'.

The installation is complete. The installer has placed the GUI software in the master control folder, with an entry in the Windows XP Start menu. The Start menu path is:

Start > Programs > Miranda > Master Control > Master Control CECP GUI

The default pathname is:

C:\Program Files\Miranda\Master Control\bin\cecp_gui.exe

We recommend that you create a shortcut on your PC's desktop:



To launch the GUI, (1) choose the application from the Start menu, (2) double-click the application in its folder, or (3) double-click its desktop shortcut.

Step 3—Update Firmware in MCEs and MCPMs

The configuration software installer will have placed a firmware file in the 'setup' folder of the master control directory. For software version 6.3.5, the default pathname of the file is:

C:\Program Files\Miranda\Master Control\setup\MCESoftwarePackage_6_3_5.nvz

Use this file for updating all MCEs. It cannot be used for MCPMs.)

If you have MCPMs

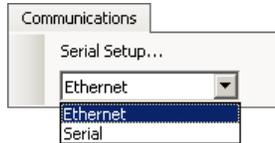
(MCPM-SD MCPM-HD MCPM-HD2 MCPM-MK-SD MCPM-MK-HD MCPM-SDHD)

you must obtain the specific MCPM firmware files from Miranda customer service. See Appendix 1 for the details.

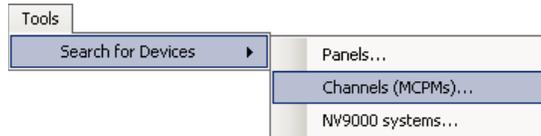
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Follow these steps:

- 1 Launch MasterDiag.
- 2 Choose Ethernet mode from the 'Communications' menu:



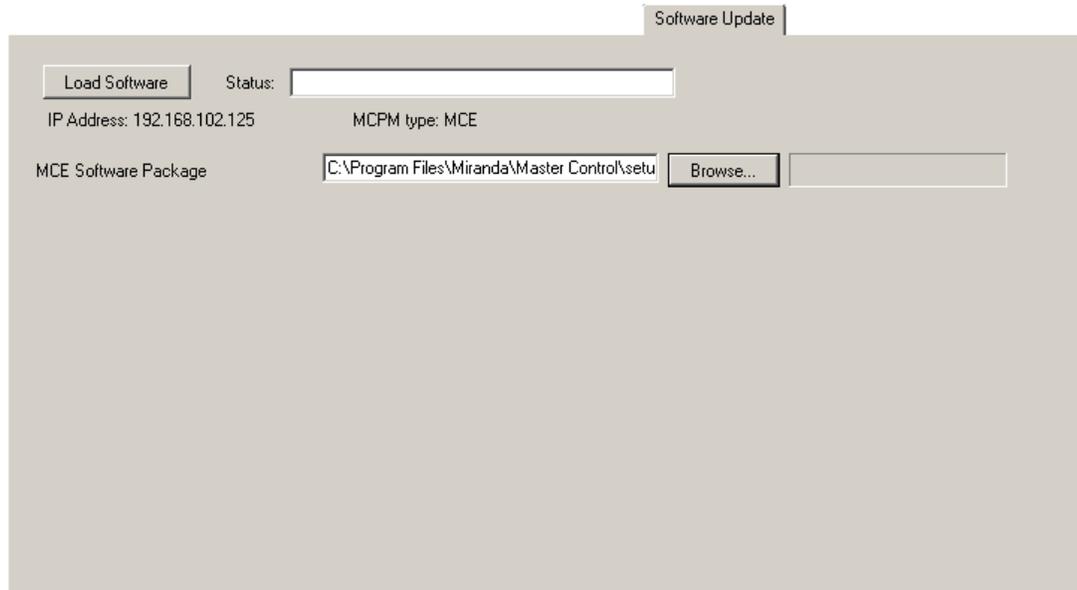
- 3 Choose an MCE or an MCPM from the master control list at the left. If you need to do so, you can execute a search for all channels:



It is assumed that all your channels (MCEs or MCPMs) appear in the master control list at the left of the MasterDiag window.

- 4 Go to the 'Software Update' page.

If the channel you chose is an MCE, you will see a page that looks like this:



Browse to enter the name of the current .nvz file. As stated, that would be

`MCESoftwarePackage_6_3_5.nvz`

in the setup folder of the installed master control software. Then click 'Load Software'. MasterDiag will notify you when the load is complete.

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If the channel you chose is an MCPM, you will see a page that looks like this:

Software Update

Load Software Status:

IP Address: 192.168.102.121 MCPM type: MCPM-SD

APP	<input type="text"/>	Browse...	<input type="text"/>
PLD0-VID1	<input type="text"/>	Browse...	<input type="text"/>
PLD1-VID2	<input type="text"/>	Browse...	<input type="text"/>
PLD2-LOGO	<input type="text"/>	Browse...	<input type="text"/>
PLD3-SQZ	<input type="text"/>	Browse...	<input type="text"/>
PLD4-XPT	<input type="text"/>	Browse...	<input type="text"/>
PLD5-AUD	<input type="text"/>	Browse...	<input type="text"/>

This is a page for an MCPM-SD. The page for other MCPM types will have a different number of firmware files to load. For the MCPM of the type you are updating, you will have to obtain each individual firmware file from Miranda customer service and browse to locate each file on your computer.

When you have selected all the firmware files for this MCPM, click 'Load Software'.

Here too, MasterDiag will notify you when the load is complete.

Step 4—Update Firmware in Hardware Control Panels

The configuration software installer will have placed several firmware file in the 'setup' folder of the master control directory. For software version 6.3.5, the default pathnames of the files are:

```
C:\Program Files\Miranda\Master Control\setup\PanelSoftwarePackage_CECP_6_3_3.nvz  
C:\Program Files\Miranda\Master Control\setup\PanelSoftwarePackage_FECP_6_3_3.nvz  
C:\Program Files\Miranda\Master Control\setup\PanelSoftwarePackage_SCP_6_3_4.nvz
```

Use the firmware file appropriate to the panel you are updating: CECP, FECP, or SCP.

▲ **Updating legacy panels (FFCP, CFCP) requires another approach. Don't know what it is though.**

- 1 Launch the MCS Panel Configuration Editor.
- 2 Select a panel. All panels in your system should be identified in the panel list at the left of the editor's window.
- 3 Choose 'Update Panel Software' from the 'Tools' menu:



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If you are updating an FECP, CECP, or an SCP, you'll see a page that looks like this:

The screenshot shows a software update window titled "Update Panel Software". It displays the IP address (192.168.102.116) and the panel type (Full Enhanced Control Panel (FECP)). The installer file path is C:\Program Files\Miranda\Master Control\setup\PanelSoftwarePackage_FECP_7_0_0.nvz. An "Install" button is present, along with a note to "Click Install to update panel". The current panel software version is 0.0.0.0.

Do Update	Description	Part Number	Part Version	Part Revision	Action
<input checked="" type="checkbox"/>	Main App	SV0846-07	0.0.0.0	x	Update
<input type="checkbox"/>	Front Panel App for Panel 0	SV0780-06	6.1.0.43	A	Current
<input type="checkbox"/>	Front Panel App for Panel 1	SV0780-06	6.1.0.43	A	Current
<input type="checkbox"/>	Front Panel App for Panel 2	SV0780-06	6.1.0.43	A	Current
<input type="checkbox"/>	Front Panel App for Rear I/O	SV0780-06	6.1.0.43	A	Current
<input type="checkbox"/>	Front Panel App for Splash Extender	SV0780-06	6.1.0.43	A	Current
<input type="checkbox"/>	Front Panel App for Base Extender	SV0780-06	6.1.0.43	A	Current
<input type="checkbox"/>	Front Panel FPGA for Panel 0	SV0734-01	1.0.0.0	A0	Current
<input type="checkbox"/>	Front Panel FPGA for Panel 1	SV0734-01	1.0.0.0	A0	Current
<input type="checkbox"/>	Front Panel FPGA for Panel 2	SV0734-01	1.0.0.0	A0	Current
<input type="checkbox"/>	Front Panel FPGA for Rear I/O	SV0735-02	2.0.0.0	A0	Current
<input type="checkbox"/>	Front Panel FPGA for Splash Extender	SV0853-01	1.0.0.0	A0	Current
<input type="checkbox"/>	Front Panel FPGA for Base Extender	SV0734-01	1.0.0.0	A0	Current

Below the table is a diagram of the panel hardware with color-coded labels: Panel 1 (blue), Base Ext (cyan), Splash Ext (magenta), Panel 2 (green), and Panel 0 (red).

This is a page for an FECP. The pages for CECPs and SCPs are similar but with slightly different information in the table rows.

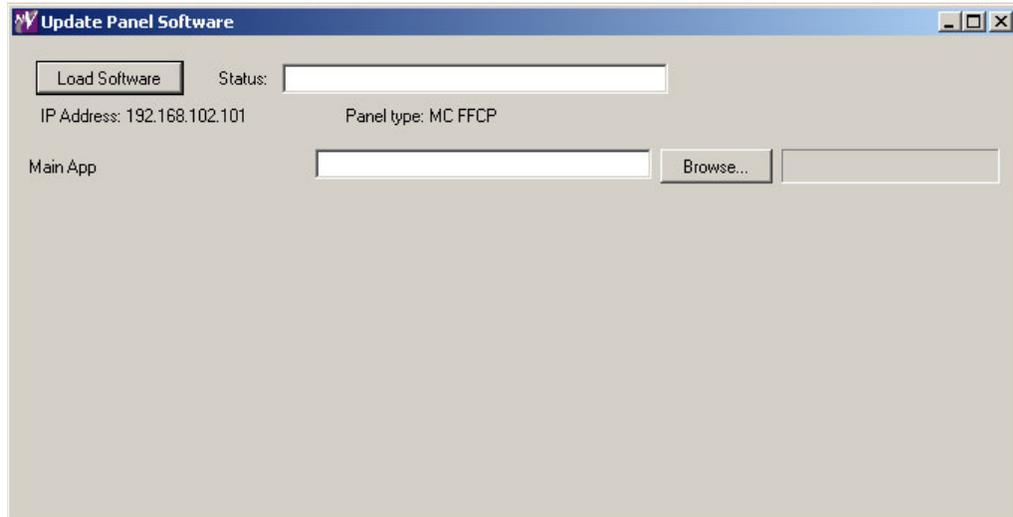
Browse to select the .nvz file appropriate for your panel. (It is in the setup folder in the master config directory, by default.)

Mark the checkboxes in the table beside the components you want to install. If you are doing a general update, we recommend you check all entries.

Click 'Install' to load the firmware.

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If you are updating a legacy panel—an FFCP or a CFCP—you will see a slightly different page:



You'll have to obtain a firmware file from Miranda customer service and browse to select it. Click 'Load Software' to carry out the update. The panel editor will notify you when it is finished.

Step 5—Modify Channel Configurations to Use New Features

This step is optional. It is not a requirement for switching to new software. We cannot tell you what to configure, but the method is important.

- 1 Launch MasterConfig.
- 2 Select an MCE or MCPM.
- 3 Read the configuration from the MCE or MCPM.
- 4 Perform any modifications you find necessary.
- 5 Write the configuration back to the MCE or MCPM.

We recommend that you save your modified configurations as well as write them back to the MCEs or MCPMs.

Step 6—Modify Panel Configurations to Use New Features.

This step is also optional. It is not a requirement for switching to new software. Here too, the method is important. Follow these steps for *hardware* panels:

- 1 Launch the MCS Panel Configuration Editor.
- 2 Select a panel.
- 3 Read the configuration from the panel.
- 4 Perform any modifications you find necessary.
- 5 Write the configuration back to the panel.

We recommend that you save your modified configurations as well as write them back to the panels.

Upgrading Master Control Software and Firmware

Follow these steps for all instances of the CECF GUI.

- 1 Launch the MCS Panel Configuration Editor.
- 2 Locate the file `cecp_gui.uicfg` in the directory in which the GUI resides.
- 3 For your protection, make a backup copy of this file.
- 4 Open `cecp_gui.uicfg` in the MCS Panel Configuration Editor.
- 5 Perform any modifications you find necessary.
- 6 Save the file. It is recommended that you save an additional copy of this file elsewhere as a archival copy.

Appendix 1 MCPM Firmware

Listed here are the firmware part numbers to order if you want to update MCPMs.

Generally the part number is equivalent to a `.exo` file of the same name. However, some parts are `.mx` files, such as SV0736-04, where the firmware file is named `SD.mx`.

MCPM-SD

Component	Part Number	Remarks
App	SV0736-04	a.k.a. SD.mx
PLD0-Vid1	SV0372-03	
PLD1-Vid2	SV0373-03	
PLD2-Logo	SV0374-02	
PLD3-Sqz	SV0375-02	
PLD4-XPT	SV0370-04	
PLD5-Aud	SV0615-01	

MCPM-HD

Component	Part Number	Remarks
App	SV0749-04	a.k.a. HD.mx
Video Proc 1	SV0391-05	
Video Proc 2	SV0392-05	
Logo	SV0395-02	
Squeeze	SV0396-02	
XPT	SV0390-05	
Audio Proc	SV0616-03	
Video Proc 3	SV0393-05	
Video Proc 4	SV0394-03	

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MCPM-HD2

Component	Part Number	Remarks
App	SV0749-04	a.k.a. HD.mx
Video Proc 1	SV0391-05	
Video Proc 2	SV0392-05	
Logo	SV0395-02	
Squeeze	SV0396-02	
XPT	SV0549-05	
Audio Proc	SV0617-03	
Video Proc 3	SV0393-05	
Video Proc 4	SV0394-03	

MCPM-MK-SD

Component	Part Number	Remarks
App	SV0576-02	a.k.a. MK_SD.mx
PLD0-Vid1	SV0577-02	
PLD1-Vid2	SV0374-02	
PLD2-Logo	SV0370-04	
PLD4-XPT	SV0614-03	(There is no PLD3.)
PLD5-Aud	SV0556-04	

MCPM-MK-HD

Component	Part Number	Remarks
App	SV0669-04	a.k.a. MK_HD.mx
VP1	SV0673-01	
Logo	SV0395-02	
XPT	SV0676-01	
Audio	SV0678-02	
VP3	SV0674-02	
VP4	SV0675-01	

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MCPM-SDHD/S

Component	Part Number	Remarks
App	SV0684-04	a.k.a. SDHD.mx
PLD0-Vid1	SV0474-02	
PLD1-Vid2	SV0475-02	
PLD2-Logo	SV0476-01	
PLD3-Sqz	SV0477-01	
PLD4-XPT	SV0478-03	
PLD5-Aud	SV0618-01	
PLD6-Vid3	SV0480-02	
PLD7-Vid4	SV0481-01	
PLD8-Scr1	SV0482-02	Scaler
PLD9-Scr2	SV0483-01	Scaler

MCPM-SDHD/H

Component	Part Number	Remarks
App	SV0684-04	a.k.a. SDHD.mx
PLD0-Vid1	SV0484-02	
PLD1-Vid2	SV0485-02	
PLD2-Logo	SV0486-01	
PLD3-Sqz	SV0487-01	
PLD4-XPT	SV0488-02	
PLD5-Aud	SV0618-01	
PLD6-Vid3	SV0490-03	
PLD7-Vid4	SV0491-02	
PLD8-Scr1	SV0492-02	Scaler
PLD9-Scr2	SV0493-01	Scaler

Appendix 1 Panel Firmware

TBD